

Name \_\_\_\_\_

### Observing Evaporation and Condensation

1. Fill in Table 1 below

Table 1:

How Water Temperature Affects Evaporation and Condensation

Water in Capped Container	Water Temperature (°C)	Predictions (What I Think Will Happen)	Observations (What Happened)
Hot			
Cold			

2. In which container did you observe the most evaporation and condensation?

3. Why do you think this happened?

4. How can we change the amount of condensation inside the container?

5. Why do hurricanes form most often in warm, tropical waters?

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### Modeling the Effects of Air Pressure on Cloud Formation

1. What are the “ingredients” for cloud formation?
2. If we want to test how air pressure affects cloud formation, how could we create high pressure in the flask?
3. How could we create low pressure in the flask?
4. Fill in Table 2 below

Table 2:

How Air Pressure in a Flask Affects Cloud Formation

Air Pressure in Flask	Predictions	Observations
High		
Low		

5. Why did we add smoke to the flask?
6. What happened to the air when I squeezed the bulb on the flask, creating high pressure?
7. When I released the bulb, I created a low-pressure system. Describe the air inside the flask when this happened.
8. How are air pressure and cloud formation related?